

Figure 1 (page 1 of 3)

ATGATGTGCTTAAAGATCCTAAGAATAAGCCTGGCGATTTTGGCTGGGTGGGCACTCTGT 60
 M M C L K I L R I S L A I L A G W A L C (20)
 TCTGCCAACTCTGAGCTGGGCTGGACACGCAAGAAATCCTTGGTTGAGAGGGAACACCTG 120
 S A N S E L G W T R K K S L V E R E H L (40)
 AATCAGGTGCTGTTGGAAGGAGAACGTTGTTGGCTGGGGGCCAAGGTTCAAGACCCAGA 180
 N Q V L L E G E R C W L G A K V R R P R (60)
 GCTTCTCCACAGCATCACCTCTTTGGAGTCTACCCCAGCAGGGCTGGGAACCTACCTAAGG 240
 A S P Q H H L F G V Y P S R A G N Y L R (80)
 CCCTACCCCGTGGGGGAGCAAGAAATCCATCATACAGGACGCAGCAAACCAGACACTGAA 300
 P Y P V G E Q E I H H T G R S K P D T E (100)
 GGAAATGCTGTGAGCCTTGTTCCTCCAGACCTGACTGAAAATCCAGCAGGACTGAGGGGT 360
 G N A V S L V P P D L T E N P A G L R G (120)
 GCAGTTGAAGAGCCGGCTGCCCCATGGGTAGGGGATAGTCTTATTGGGCAATCTGAGCTG 420
 A V E E P A A P W V G D S P I G Q S E L (140)
 CTGGGAGATGATGACGCTTATCTCGGCAATCAAAGATCCAAGGAGTCTCTAGGTGAGGCC 480
 L G D D D A Y L G N Q R S K E S L G E A (160)
 GGGATTGAGAAAGGCTCAGCCATGGCTGCCACTACTACCACCGCCATTTTCACAACCCTG 540
 G I Q K G S A M A A T T T T A I F T T L (180)
 AACGAACCCAAACCAGAGACCCAAAGGAGGGGCTGGGCCAAGTCCAGGCAGCGTCGCCAA 600
 N E P K P E T Q R R G W A K S R Q R R Q (200)
 GTGTGGAAGAGGCGGGCGGAAGATGGGCAGGGAGACTCCGGTATCTCTTCACATTTCAA 660
 V W K R R A E D G Q G D S G I S S H F Q (220)
 CCTTGGCCCAAGCATTCCCTTAAACACAGGGTCAAAAAGAGTCCACCGGAGGAAAGCAAC 720
 P W P K H S L K H R V K K S P P E E S N (240)
 CAAATGGTGGAGAGGGCTCCTACCGAGAAGCAGAGACCTTTAACTCCCAAGTAGGACTG 780
 Q N G G E G S Y R E A E T F N S Q V G L (260)
 CCCATCTTATACTTCTCTGGGAGGCGGGAGCGGCTGCTGCTGCGTCCAGAAGTGCTGGCT 840
 P I L Y F S G R R E R L L L R P E V L A (280)
 GAGATTCCCCGGGAGGCGTTTACAGTGAAGCCTGGGTTAAACCGGAGGGAGGACAGAAC 900
 E I P R E A F T V E A W V K P E G G Q N (300)
 AACCCAGCCATCATCGCAGGTGTGTTTGATAACTGCTCCACACTGTGAGTGACAAAGGC 960
 N P A I I A G V F D N C S H T V S D K G (320)
 TGGGCCCTGGGGATCCGCTCAGGGAAGGACAAGGGAAGCGGGATGCTCGCTTCTTCTTC 1020
 W A L G I R S G K D K G K R D A R F F F (340)
 TCCCTCTGCACCGACCGCGTGAAGAAAGCCACCATCTTGATTAGCCACAGTCGCTACCAA 1080
 S L C T D R V K K A T I L I S H S R Y Q (360)
 CCAGGCACATGGACCCATGTGGCAGCCACTTACGATGGACGGCACATGGCCCTGTATGTG 1140
 P G T W T H V A A T Y D G R H M A L Y V (380)
 GATGGCACTCAGGTGGCTAGCAGTCTAGACCAGTCTGGTCCCCTGAACAGCCCCTTCATG 1200
 D G T Q V A S S L D Q S G P L N S P F M (400)
 GCATCTTGCCGCTCTTTGCTCCTGGGGGAGACAGCTCTGAGGATGGGCACTATTTCCGT 1260
 A S C R S L L L G G D S S E D G H Y F R (420)
 GGACACCTGGGCACACTGGTTTTCTGGTTCGACCGCCCTGCCACAAAGCCATTTTCAGCAC 1320
 G H L G T L V F W S T A L P Q S H F Q H (440)
 AGTTCTCAGCATTCAAGTGGGGAGGAGGAAGCGACTGACTTGGTCTGACAGCGAGCTTT 1380
 S S Q H S S G E E E A T D L V L T A S F (460)
 GAGCCTGTGAACACAGAGTGGGTTCCCTTTAGAGATGAGAAGTACCCACGACTTGAGGTT 1440
 E P V N T E W V P F R D E K Y P R L E V (480)
 CTCCAGGGCTTTGAGCCAGAGCCTGAGATTCTGTCGCTTTGCAGCCCCCACTCTGTGGG 1500
 L Q G F E P E P E I L S P L Q P P L C G (500)
 CAAACAGTCTGTGACAATGTGAATTGATCTCCAGTACAATGGATACTGGCCCTTCGG 1560
 Q T V C D N V E L I S Q Y N G Y W P L R (520)
 GGAGAGAAGGTGATACGCTACCAGGTGGTGAACATCTGTGATGATGAGGGCCTAAACCCC 1620
 G E K V I R Y Q V V N I C D D E G L N P (540)
 ATTGTGAGTGAGGAGCAGATTTCGTCTGCAGCACGAGGCACTGAATGAGGCCTTCAGCCGC 1680
 I V S E E Q I R L Q H E A L N E A F S R (560)
 TACAACATCAGCTGGCAGCTGAGCGTCCACCAGGTCCACAATTCACCCTGCGACACCGG 1740
 Y N I S W Q L S V H Q V H N S T L R H R (580)
 GTTGTGCTTGTGAACCTGTGAGCCCAGCAAGATTGGCAATGACCATTGTGACCCCGAGTGT 1800
 V V L V N C E P S K I G N D H C D P E C (600)

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GAGCACCCTACAGGCTATGATGGGGTGAAGTGGCGCTGCAGGGCCGCTGCTACTCC	1860
E H P L T G Y D G G D C R L Q G R C Y S	(620)
TGGAACCGCAGGGATGGGCTCTGTACGTGGAGTGTAAACATGCTGAACGACTTTGAC	1920
W N R R D G L C H V E C N N M L N D F D	(640)
GACGGAGACTGCTGCGACCCCCAGGTGGCTGATGTGCGCAAGACCTGCTTTGACCCTGAC	1980
D G D C C D P Q V A D V R K T C F D P D	(660)
TCACCCAAGAGGGCATAATGAGTGTGAAGGAGCTGAAGGAGGCCCTGCAGCTGAACAGT	2040
S P K R A Y M S V K E L K E A L Q L N S	(680)
ACTCACTTCTCAACATCTACTTTGCCAGCTCAGTGGCGGAAGACCTTGACGGTGGTGGC	2100
T H F L N I Y F A S S V R E D L A G A A	(700)
ACCTGGCCTTGGGACAAGGACGCTGTCACTCACCTGGGTGGCATTGTCTCAGCCCAGCA	2160
T W P W D K D A V T H L G G I V L S P A	(720)
TATTATGGGATGCCTGGCCACACCGACACCATGATCCATGAAGTGGGACATGTTCTGGGA	2220
Y Y G M P G H T D T M I H E V G H V L G	(740)
CTCTACCATGTCTTTAAAGGAGTCAAGTGAAGAGAATCCTGCAATGACCCCTGCAAGGAG	2280
L Y H V F K G V S E R E S C N D P C K E	(760)
ACAGTGCCATCCATGGAAACGGGAGACCTCTGTGCGGACACCGCCCCCACTCCCAAGAGT	2340
T V P S M E T G D L C A D T A P T P K S	(780)
GAGCTGTGCGGGAACAGAGCCCACTAGTGACACCTGTGGCTTCACTCGCTTCCCAGGG	2400
E L C R E P E P T S D T C G F T R F P G	(800)
GCTCCGTTACCAACTACATGAGCTACACGGATGATAACTGCACTGACAACCTTCACTCCT	2460
A P F T N Y M S Y T D D N C T D N F T P	(820)
AACCAAGTGGCCCGAATGCATTGCTATTTGGACCTAGTCTATCAGCAGTGGACTGAAAGC	2520
N Q V A R M H C Y L D L V Y Q Q W T E S	(840)
AGAAAGCCACCCCCATCCCCATTCCACCTATGGTCATCGGACAGACCAACAAGTCCCTC	2580
R K P T P I P I P P M V I G Q T N K S L	(860)
ACTATCCACTGGCTGCCTCCTATTAGTGGAGTTGTATATGACAGGGCCTCAGGCAGCTTG	2640
T I H W L P P I S G V V Y D R A S G S L	(880)
TGTGGCGCTTGCACTGAAGATGGGACCTTTCGTCACTATGTGCACACAGCTTCTCCCGG	2700
C G A C T E D G T F R Q Y V H T A S S R	(900)
CGGGTGTGTGACTCCTCAGGTTATTGGACCCAGAGGAGGCTGTGGGGCCTCCTGATGTG	2760
R V C D S S G Y W T P E E A V G P P D V	(920)
GATCAGCCCTGCGAGCCAAGCTTACAGGCCTGGAGCCCTGAGGTCCACCTGTACCACATG	2820
D Q P C E P S L Q A W S P E V H L Y H M	(940)
AACATGACGGTCCCCTGCCCCACAGAAGGCTGTAGCTTGGAGCTGCTCTTCCAACACCCG	2880
N M T V P C P T E G C S L E L L F Q H P	(960)
GTCCAAGCCGACACCCCTCACCTGTGGGTCACTTCTTCTTCATGGAGTCTCGCAGGTC	2940
V Q A D T L T L W V T S F F M E S S Q V	(980)
CTCTTTGACACAGAGATCTTGCTGGAACAAGGAGTCACTGCACCTGGGCCCCCTTAGAC	3000
L F D T E I L L E N K E S V H L G P L D	(1000)
ACTTTCTGTGACATCCCACTCACCATCAAACTGCACGTGGATGGGAAGGTGTCGGGGGTG	3060
T F C D I P L T I K L H V D G K V S G V	(1020)
AAAGTCTACACCTTTGATGAGAGGATAGAGATTGATGCAGCACTCCTGACTTCTCAGCCC	3120
K V Y T F D E R I E I D A A L L T S Q P	(1040)
CACAGTCCCTTGTGCTCTGGCTGCAGGCCTGTGAGGTACCAGGTTCTCCGCGATCCCCCA	3180
H S P L C S G C R P V R Y Q V L R D P P	(1060)
TTTGCCAGTGGTTTGGCCGTGGTGGTGACACATTCTCACAGGAAGTTACGGACGTGGAG	3240
F A S G L P V V T H S H R K F T D V E	(1080)
GTCACACCTGGACAGATGTATCAGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGGGA	3300
V T P G Q M Y Q Y Q V L A E A G G E L G	(1100)
GAAGCTTCGCTCCTCTGAACCACATTGATGGAGCTCCTTATTGTGGAGATGGGAAGGTG	3360
E A S P P L N H I H G A P Y C G D G K V	(1120)
TCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCTCC	3420
S E R L G E E C D D G D L V S G D G C S	(1140)
AAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGCTACATG	3480
K V C E L E E G F N C V G E P S L C Y M	(1160)
TATGAGGGAGATGGCATATGTGAACCTTTTGGAGAGAAAACCAGCATTGTAGACTGTGGC	3540
Y E G D G I C E P F E R K T S I V D C G	(1180)
ATCTACACTCCCAAGGATACTTGGATCAATGGGCTACCCGGGCTTACTCCTCTCATGAA	3600
I Y T P K G Y L D Q W A T R A Y S S H E	(1200)

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GACAAGAAGAAGTGTCTGTTTCCTTGGTAACTGGAGAACCTCATTCCCTAATTGACACA D K K K C P V S L V T G E P H S L I C T	3660 (1220)
TCATACCATCCAGATTTACCCAACCACCGTCCCCTAACTGGCTGGTTTCCCTGTGTTGCC S Y H P D L P N H R P L T G W F P C V A	3720 (1240)
AGTGAAATGAAACTCAGGATGACAGGAGTGAACAGCCAGAAGGTAGCCTGAAGAAAGAG S E N E T Q D D R S E Q P E G S L K K E	3780 (1260)
GATGAGGTTTGGCTCAAAGTGTGTTTCAATAGACCAGGAGAGGCCAGAGCAATTTTATT D E V W L K V C F N R P G E A R A I F I	3840 (1280)
TTTTTGACAACTGATGGCCTAGTTCCCGGAGAGCATCAGCAGCCGACAGTGAATCTCTAC F L T T D G L V P G E H Q Q P T V T L Y	3900 (1300)
CTGACCGATGTCCGTGGAAGCAACCACTCTCTTGGAACTATGGACTGTGATGCCAGCAT L T D V R G S N H S L G T Y G L S C Q H	3960 (1320)
AATCCACTGATTATCAATGTGACCCATCACCAGAATGTCCTTTTCCACCATAACCACCTCA N P L I I N V T H H Q N V L F H H T T S	4020 (1340)
GTGCTGCTGAATTTCTCATCCCCACGGGTGGGCATCTCAGCTGTGGCTCTAAGGACATCC V L L N F S S P R V G I S A V A L R T S	4080 (1360)
TCCCGCATTGGTCTTTCCGGCTCCAGTAACTGCATCTCAGAGGACGAGGGGCAGAATCAT S R I G L S A P S N C I S E D E G Q N H	4140 (1380)
CAGGGACAGAGCTGTATCCATCGGCCCTGTGGGAAGCAGGACAGCTGTCCGTCATTGCTG Q G Q S C I H R P C G K Q D S C P S L L	4200 (1400)
CTTGATCATGCTGATGTGGTGAAGTGTACCTCTATAGGCCAGGTCTCATGAAGTGTGCT L D H A D V V N C T S I G P G L M K C A	4260 (1420)
ATCACTTGTCAAAGGGGATTTGCCCTTCAGGCCAGCAGTGGGCAGTACATCAGGCCCATG I T C Q R G F A L Q A S S G Q Y I R P M	4320 (1440)
CAGAAGGAAATTCTGCTCACATGTTCTTCTGGGCACTGGGACCAGAATGTGAGCTGCCTT Q K E I L L T C S S G H W D Q N V S C L	4380 (1460)
CCCGTGGACTGCGGTGTTCCCGACCCGTCTTTGGTGAAGTATGCAAACTTCTCCTGCTCA P V D C G V P D P S L V N Y A N F S C S	4440 (1480)
GAGGGAACCAAATTTCTGAAACGCTGCTCAATCTCTTGTGTCCCACCAGCCAAGCTGCAA E G T K F L K R C S I S C V P P A K L Q	4500 (1500)
GGACTGAGCCCATGGCTGACATGTCTTGAAGATGGTCTCTGGTCTCTCCCTGAAGTCTAC G L S P W L T C L E D G L W S L P E V Y	4560 (1520)
TGCAAGTTGGAGTGTGATGCTCCCCCTATTATTCTGAATGCCAACTTGCTCCTGCCTCAC C K L E C D A P P I I L N A N L L L P H	4620 (1540)
TGCCTCCAGGACAACCACGACGTGGGCACCATCTGCAAATATGAATGCAAACCAGGGTAC C L Q D N H D V G T I C K Y E C K P G Y	4680 (1560)
TATGTGGCAGAAAGTGCAGAGGGTAAAGTCAGGAACAAGCTCCTGAAGATACAATGCCTG Y V A E S A E G K V R N K L L K I Q C L	4740 (1580)
GAAGGTGGAATCTGGGAGCAAGGCAGCTGCATTCTGTGGTGTGTGAGCCACCCCTCCT E G G I W E Q G S C I P V V C E P P P P	4800 (1600)
GTGTTTGAAGGCATGTATGAATGTACCAATGGCTTCAGCCTGGACAGCCAGTGTGTGCTC V F E G M Y E C T N G F S L D S Q C V L	4860 (1620)
AACTGTAACCAGGAACGTGAAAAGCTTCCCATCCTCTGCACTAAAGAGGGCCTGTGGACC N C N Q E R E K L P I L C T K E G L W T	4920 (1640)
CAGGAGTTTAAGTTGTGTGAGAATCTGCAAGGAGAATGCCACACCCCCCTCAGAGCTG Q E F K L C E N L Q G E C P P P P S E L	4980 (1660)
AATTCTGTGGAGTACAAATGTGAACAAGGATATGGGATTGGTGCAGTGTGTTCCCCATTG N S V E Y K C E Q G Y G I G A V C S P L	5040 (1680)
TGTGTAATCCCCCAGTGACCCCGTGATGCTACCTGAGAATATCACTGCTGACACTCTG C V I P P S D P V M L P E N I T A D T L	5100 (1700)
GAGCACTGGATGGAACCTGTCAAAGTCCAGAGCATGTGTGCACTGGCCGGCGTCAATGG E H W M E P V K V Q S I V C T G R R Q W	5160 (1720)
CACCCAGACCCCGTCTTAGTCCACTGCATCCAGTCATGTGAGCCCTTCCAAGCAGATGGT H P D P V L V H C I Q S C E P F Q A D G	5220 (1740)
TGGTGTGACACTATCAACAACCGAGCCTACTGCCACTATGACGGGGGAGACTGCTGCTCT W C D T I N N R A Y C H Y D G G D C C S	5280 (1760)
TCCCACTCTCCTCCAAGAAGGTCATTCCATTGTGCTGCTGACTGTGACCTGGATGAGTGC S T L S S K K V I P F A A D C D L D E C	5340 (1780)
ACCTGCCGGGACCCCAAGGCAGAAGAAAATCAGTAA T C R D P K A E E N Q *	5376 (1791)

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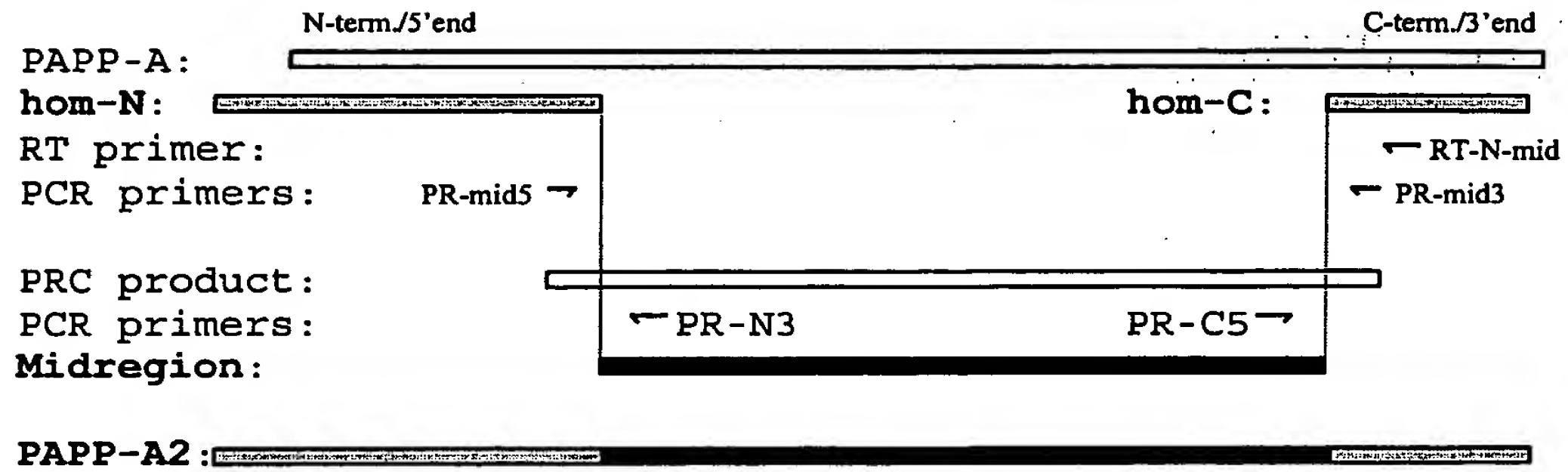


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PA2	m h ikilrislaiaiaagw h hsa h nselgwtrkkslverehlnqvll g eg h nlgakvrrpraspqhhlfgvypsragnylrpyfvgeqeihtgrskpdt g egnavslvppdlt h enpaglrag	120
PA	mrlwswvlhlglisaa g gl h la h erprarrdpragrprrpaagpat h atrgprpprlaaaaaaagraweavrvprrroor-----	80

N-terminal residue of mature PAPP-A2 (Ser-234)↓

PA2 AVEEPAAPWVGDSPIGQSELLGDDDAYLGNQRSKESLGEAGIQKGSAMAATTTTTFITTLNEPKPQTQRRGWAKSRQRRQVVKRAEDGQDGSIGSISSHFQPWPKHSLKHRVKKSPPEESN 240
PA -----

PA2 QNGGEGSYREAZTFNSQVGLPILYFSGRRERLLRLPEVLAEIPREAFITVLAWVKPEGGQNPAIIAGVFDNHSHTVSDKGWALGIRSGKDKGKRDRAPFFSLDTRVVKATILISHSR YQ 360
PA -----EARGATEEPPSPSRALYFSGRGEQLRVLRADL-ELPRDAFTLQVWLRAEGGQSPAVITGLYDKSYISRDGRWVGVIHTISDQDNKDPRIYFFSLKTDRAQVTTINAHRSYL 192

N-terminal residue of mature PAPP-A (Glu-81)

[illegible]

PA2 LOGFEPEPEILSPLOPPIGQTVSDNVELISQYNGYWPLRGEKVIRYQVNNIDDEGLNPIVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVSPSPKIGNDHDPPEV 600
 PA SNAHG--FLLDTSLEPPLGQTLGDNTEVIASYNQLSSFRQPKVRYRVNVLVEDDHKNPTVTREQVDFQHQLAEAFKQYNISWELDVLEVSNSSLRRRLILANDISKIGDENDPPEV 428
 ... : .:*****:***.*:~:** :.* **::*:***: :~: ** :.~: :~: * ***:*****:~* :~* **::*:~:~:~: :~: *****:~:~:~:

PA2 AYYGMPGHGTDMIHEVGHVGLYEVFKGVSERESENDPEKETVPSMETGDLADTAPTPKSLSLREPEPTSDTGFTFPGAPFTNMSYTDNDGTDNFTPNQVARMHGYLDLVYQOWTE 839

PA SFYGMPGHGTHMIHEIGRLGLYHVFRGISEIQSSDPEMETEPSFETGDLNDTNPAKPKHSGLDGPNGDTEGFHSFFNTPYNNMSYADDDTDSFTPNQVARMHGYLDLVYQGWQP 668

.:*****.*****:* *****:.*: *.* ** * *:***** * *:.* : * : * .***** * :.: :*****:.*:*****.*****.***** *

[illegible]

PA2 HPVQADTLTLWVT--SFFMESSQVLFDTTEILLENKESVHLGPLDTF~~DI~~PLTIKLH-VDGKVS~~GK~~VYTFDERIEIDAALLTSQPHSP~~ES~~SGRFPVRYQVLRDPFFASGLFVVVTHSHRK 1075
 PA YPLVPESLTIWTVFVSTDWDSSGAVNDIKLLAVSGKNISLGPONV~~ED~~SVPLTIRLWDVGEEVYGIQIYTTDEHLEIDAAMLTSTADTPI~~LO~~KPLKYKVRDPFLQMDVASIL-HLNRRK 907
 :*: :*:*** * :** :* :* :* :*: *** :*:*:*:*:* * :* :*:*:*:*:*:*:*:* :*:* :*:*:*:*:*:*: :* :* :* :* :* :*

SCR1

PA2 GLS¹QHNPLIINVTHHQNVLFHRTTSVLLNFSSPRVGISAVALTSSRIGLSAPSN²ISEDEGQNHQGS³IHRP⁴GGKQDS⁵PSLLLDHADVYN⁶TSIGPGLM⁷KAITE⁸GRGFALQASSG 1434

PA VLS⁹GRNNPLIIPVVHDLSPFYHSQAVRVSPSSPLVAISGVALRSPDNFDPVTLSS¹⁰Q-RGETYSPAEQSVHFASEKT¹¹QPELAVENASLN¹²SSSDRYHGAGT¹³VEARTGYVLQIRD 1253

SCR2
SCR3

PA2	QYIRPMQK--EILLTSSSGHWQDNVSELPLVLEGVDPDSLNYANFSSEGTGKFLKRSISGVPPAKIQLGLSPNLTLEDGLWSLPVEYKLPEDAPPIILNANLLLPILQDNHVDGTIS	1552
PA	DELIKSGTGPSVTVIETEGKWNKQVAEPVDSIPDHRQVYAASPSPEGTTFGSGSPGRHFAQLKGNSSLTLEDGLWSFPEALDELMLAPPFVPNADLTARENRKHKVGSFS	1373
	<div style="display: flex; justify-content: space-between;"> ***** ***** ***** </div>	

SCR4
SCR5

PA2 RYEPKPGYYVAESAEGKVRNKLKIQGLEGGIWEQGSIPVVEPPPPVFEGMYETNGFSLDSQVLNEN-----QERKLPILSTKEGLWTQEFKLENLQGEPPPPSELNS-V EYK 1666

PA KYRKPQYHVPQSSR-KSKKRAFKTQTDGSSWQEGAGVEVTEDPPPPKFHGLYQETNGFQFNSEIRIKEDSDASQGLGSNVIHKKDGTWNGSFHVQEMQGGQSVN-ELNSNLKIQ 1491

A2 GEQGYGIGAVISPLVIPPSPDVMLPENITADTLEHMEPVKQVSIVTGRROWHPDVLVHTQSSEFFOAGDGTDTINNRAYGHYDGGDQSSSTLSSKKVIPFAADQOLD-ESTGRDP 1785
 A EPDGYAIGSEIATSGLDHNSIILPMNVTVRDI PHWLNPTRVERRVSTAGLKWYPHALIHVKGEFFMGDNYDAINNRAFENYDGGDQSTSTVTKTKVTPFMSDLOGDQGRDP 1611

PA2 KAEENQ----- 1791
PA QAQEHSRKDLRGYSHG 1627
:*:*.:

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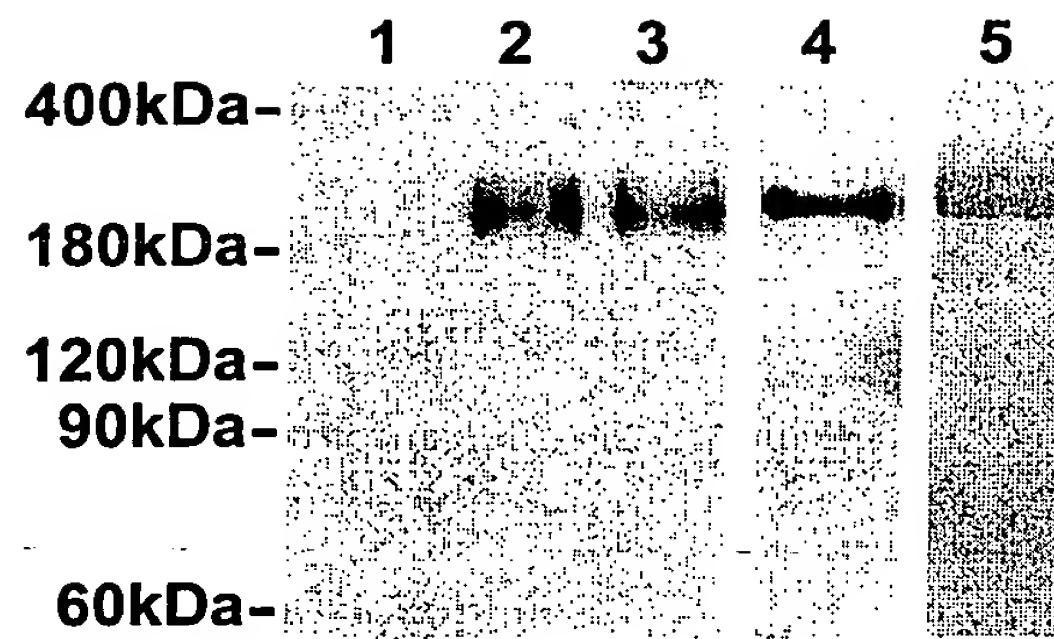


Figure 5 (page 1 of 1)

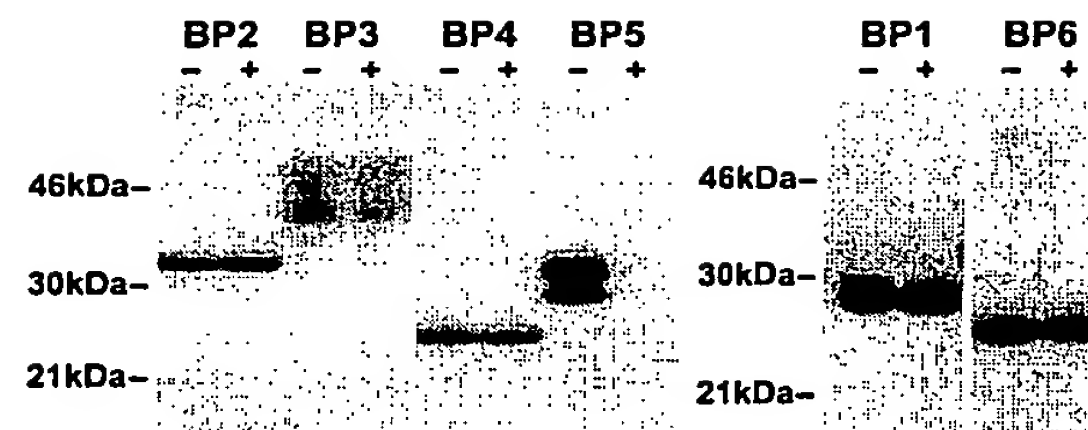


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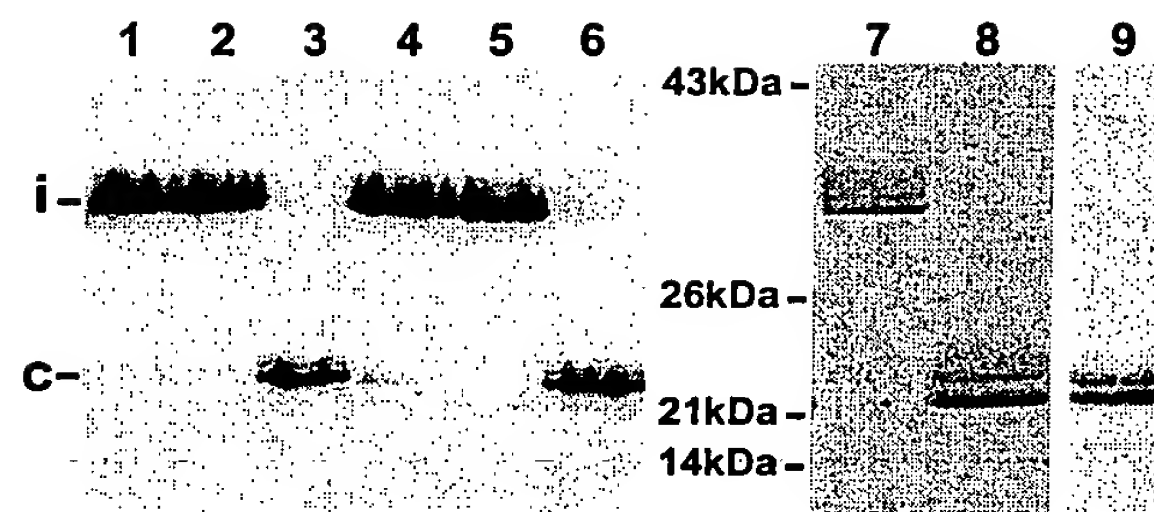


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ATGATGTGCT	TAAAGATCCT	AAGAATAAGC	CTGGCGATT	TGGCTGGGTG	GGCACTCTGT	60
TCTGCCAACT	CTGAGCTGGG	CTGGACACGC	AAGAAATCCT	TGGTTGAGAG	GGAACACCTG	120
AATCAGGTGC	TGTTGGAAGG	AGAACGTTGT	TGGCTGGGGG	CCAAGGTTCC	AAGACCCAGA	180
GCTTCTCCAC	AGCATCACCT	CTTTGGAGTC	TACCCAGCA	GGGCTGGGAA	CTACCTAAGG	240
CCCTACCCCG	TGGGGGAGCA	AGAAATCCAT	CATACAGGAC	GCAGCAAACC	AGACACTGAA	300
GGAAATGCTG	TGAGCCTTGT	TCCCCAGAC	CTGACTGAAA	ATCCAGCAGG	ACTGAGGGGT	360
GCAGTTGAAG	AGCCGGCTGC	CCCATGGGTA	GGGGATAGTC	CTATTGGGCA	ATCTGAGCTG	420
CTGGGAGATG	ATGACGCTTA	TCTCGGCAAT	CAAAGATCCA	AGGAGTCTCT	AGGTGAGGCC	480
GGGATTGAGA	AAGGCTCAGC	CATGGCTGCC	ACTACTACCA	CCGCCATTTT	CACAACCCTG	540
AACGAACCCA	AACCAGAGAC	CCAAAGGAGG	GGCTGGGCCA	AGTCCAGGCA	GCGTCGCCAA	600
GTGTGGAAGA	GGCGGGCGGA	AGATGGGCAG	GGAGACTCCG	GTATCTCTTC	ACATTTCCAA	660
CCTTGGCCCA	AGCATTCCCT	TAAACACAGG	GTCAAAAAGA	GTCCACCGGA	GGAAAGCAAC	720
CAAAATGGTG	GAGAGGGCTC	CTACCGAGAA	GCAGAGACCT	TTAACTCCCA	AGTAGGACTG	780
CCCATCTTAT	ACTTCTCTGG	GAGGCGGGAG	CGGCTGCTGC	TGCGTCCAGA	AGTGCTGGCT	840
GAGATTCCCC	GGGAGGCGTT	CACAGTGGAA	GCCTGGGTTA	AACCGGAGGG	AGGACAGAAC	900
AACCCAGCCA	TCATCGCAGG	TGTGTTTGAT	AACTGCTCCC	ACACTGTGAG	TGACAAAGGC	960
TGGGCCCTGG	GGATCCGCTC	AGGGAAGGAC	AAGGGAAAGC	GGGATGCTCG	CTTCTTCTTC	1020
TCCCTCTGCA	CCGACCGCGT	GAAGAAAGCC	ACCATCTTGA	TTAGCCACAG	TCGCTACCAA	1080
CCAGGCACAT	GGACCCATGT	GGCAGCCACT	TACGATGGAC	GGCACATGGC	CCTGTATGTG	1140
GATGGCACTC	AGGTGGCTAG	CAGTCTAGAC	CAGTCTGGTC	CCCTGAACAG	CCCCTTCATG	1200
GCATCTTGCC	GCTCTTTGCT	CCTGGGGGGA	GACAGCTCTG	AGGATGGGCA	CTATTTCCGT	1260
GGACACCTGG	GCACACTGGT	TTTCTGGTCG	ACCGCCCTGC	CACAAAGCCA	TTTTCAGCAC	1320
AGTTCTCAGC	ATTCAAGTGG	GGAGGAGGAA	GCGACTGACT	TGGTCCTGAC	AGCGAGCTTT	1380
GAGCCTGTGA	ACACAGAGTG	GGTTCCTTTT	AGAGATGAGA	AGTACCCACG	ACTTGAGGTT	1440
CTCCAGGGCT	TTGAGCCAGA	GCCTGAGATT	CTGTCGCCTT	TGCAGCCCCC	ACTCTGTGGG	1500
CAACAGATCT	GTGACAATGT	GGAATTGATC	TCCCACTACA	ATGGATACTG	GCCCTTTCGG	1560
GGAGAGAAGG	TGATACGCTA	CCAGGTGGTG	AACATCTGTG	ATGATGAGGG	CCTAAACCCC	1620
ATTGTGAGTG	AGGAGCAGAT	TCGTCTGCAG	CACGAGGCAC	TGAATGAGGC	CTTCAGCCGC	1680
TACAACATCA	GCTGGCAGCT	GAGCGTCCAC	CAGGTCCACA	ATTCCACCCT	GCGACACCGG	1740
GTTGTGCTTG	TGAACGTGTA	GCCCAGCAAG	ATTGGCAATG	ACCATTGTGA	CCCCGAGTGT	1800
GAGCACCCAC	TCACAGGCTA	TGATGGGGGT	GACTGCCGCC	TGCAGGGCCG	CTGCTACTCC	1860
TGGAACCGCA	GGGATGGGCT	CTGTACCGTG	GAGTGTAACA	ACATGCTGAA	CGACTTTGAC	1920
GACGGAGACT	GCTGCGACCC	CCAGGTGGCT	GATGTGCGCA	AGACCTGCTT	TGACCCTGAC	1980
TCACCCAAGA	GGGCATACAT	GAGTGTGAAG	GAGCTGAAGG	AGGCCCTGCA	GCTGAACAGT	2040
ACTCACTTCC	TCAACATCTA	CTTTGCCAGC	TCAGTGCGGG	AAGACCTTGC	AGGTGCTGCC	2100
ACCTGGCCTT	GGGACAAGGA	CGCTGTCACT	CACCTGGGTG	GCATTGTCTT	CAGCCCAGCA	2160
TATTATGGGA	TGCCTGGCCA	CACCGACACC	ATGATCCATG	AAGTGGGACA	TGTTCTGGGA	2220
CTCTACCATG	TCTTTAAAGG	AGTCAGTGAA	AGAGAATCCT	GCAATGACCC	CTGCAAGGAG	2280
ACAGTGCCAT	CCATGGAAAC	GGGAGACCTC	TGTGCCGACA	CCGCCCCAC	TCCCAAGAGT	2340
GAGCTGTGCC	GGGAACCAGA	GCCCAGTAGT	GACACCTGTG	GCTTCACTCG	CTTCCCAGGG	2400
GCTCCGTTCA	CCAACTACAT	GAGCTACACG	GATGATAACT	GCACTGACAA	CTTCACTCCT	2460
AACCAAGTGG	CCCGAATGCA	TTGCTATTTG	GACCTAGTCT	ATCAGCAGTG	GA CTGAAAGC	2520
AGAAAGCCCA	CCCCCATCCC	CATTCCACCT	ATGGTCACTG	GACAGACCAA	CAAGTCCCTC	2580
ACTATCCACT	GGCTGCCTCC	TATTAGTGGA	GTTGTATATG	ACAGGGCCTC	AGGCAGCTTG	2640
TGTGGCGCTT	GCACTGAAGA	TGGGACCTTT	CGTCAGTATG	TGCACACAGC	TTCTTCCCGG	2700
CGGGTGTGTG	ACTCCTCAGG	TTATTGGACC	CCAGAGGAGG	CTGTGGGGCC	TCCTGATGTG	2760
GATCAGCCCT	GCGAGCCAAG	CTTACAGGCC	TGGAGCCCTG	AGGTCCACCT	GTACCACATG	2820
AACATGACGG	TCCCCTGCCC	CACAGAAGGC	TGTAGCTTGG	AGCTGCTCTT	CCAACACCCG	2880
GTCCAAGCCG	ACACCCTCAC	CCTGTGGGTC	ACTTCCCTTCT	TCATGGAGTC	CTCGCAGGTC	2940
CTCTTTGACA	CAGAGATCTT	GCTGGAAAAC	AAGGAGTCAG	TGCACCTGGG	CCCCTTAGAC	3000
ACTTTCTGTG	ACATCCCCTT	CACCATCAAA	CTGCACGTGG	ATGGGAAGGT	GTCGGGGGTG	3060
AAAGTCTACA	CCTTTGATGA	GAGGATAGAG	ATTGATGCAG	CACTCCTGAC	TTCTCAGCCC	3120
CACAGTCCCT	TGTGCTCTGG	CTGCAGGCCT	GTGAGGTACC	AGGTTCTCCG	CGATCCCCCA	3180
TTTGCCAGTG	GTTTGCCCGT	GGTGGTGACA	CATTCTCACA	GGAAGTTCAC	GGACGTGGAG	3240
GTCACACCTG	GACAGATGTA	TCAGTACCAA	GTTCTAGCTG	AAGCTGGAGG	AGAACTGGGA	3300
GAAGCTTCGC	CTCCTCTGAA	CCACATTTCAT	GGAGCTCCTT	ATTGTGGAGA	TGGGAAGGTG	3360
TCAGAGAGAC	TGGGAGAAGA	GTGTGATGAT	GGAGACCTTG	TGAGCGGAGA	TGGCTGCTCC	3420
AAGGTGTGTG	AGCTGGAGGA	AGGTTTCAAC	TGTGTAGGAG	AGCCAAGCCT	TTGCTACATG	3480
TATGAGGGAG	ATGGCATATG	TGAACCTTTT	GAGAGAAAAA	CCAGCATTGT	AGACTGTGGC	3540
ATCTACACTC	CCAAAGGATA	CTTGGATCAA	TGGGCTACCC	GGGCTTACTC	CTCTCATGAA	3600
GACAAGAAGA	AGTGTCTGTG	TTCTTGGTA	ACTGGAGAAC	CTCATTCCCT	AATTTGCACA	3660
TCATACCATC	CAGATTTACC	CAACCACCGT	CCCCTAACTG	GCTGGTTTCC	CTGTGTTGCC	3720
AGTGAAAATG	AAACTCAGGA	TGACAGGAGT	GAACAGCCAG	AAGGTAGCCT	GAAGAAAGAG	3780
GATGAGGTTT	GGCTCAAAGT	GTGTTTCAAT	AGACCAGGAG	AGGCCAGAGC	AATTTTATT	3840
TTTTTGACAA	CTGATGGCCT	AGTTCCCGGA	GAGCATCAGC	AGCCGACAGT	GA CTCTCTAC	3900
CTGACCGATG	TCCGTGGAAG	CAACCACTCT	CTTGGAACTT	ATGGACTGTC	ATGCCAGCAT	3960
AATCCACTGA	TTATCAATGT	GACCCATCAC	CAGAATGTCC	TTTTCCACCA	TACCACCTCA	4020
GTGCTGCTGA	ATTTCTCATC	CCCACGGGTC	GGCATCTCAG	CTGTGGCTCT	AAGGACATCC	4080
TCCCGCATTG	GTCTTTCGGC	TCCCAGTAAC	TGCATCTCAG	AGGACGAGGG	GCAGAATCAT	4140
CAGGGACAGA	GCTGTATCCA	TCGGCCCTGT	GGGAAGCAGG	ACAGCTGTCC	GTCATTGCTG	4200
CTTGATCATG	CTGATGTGGT	GAAGTGTACC	TCTATAGGCC	CAGGTCTCAT	GAAGTGTGCT	4260
ATCACTTGTC	AAAGGGGATT	TGCCCTTCAG	GCCAGCAGTG	GGCAGTACAT	CAGGCCCATG	4320

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CAGAAGGAAA	TTCTGCTCAC	ATGTTCTTCT	GGGCACTGGG	ACCAGAATGT	GAGCTGCCTT	4380
CCCGTGGACT	GCGGTGTTCC	CGACCCGTCT	TTGGTGAAC	ATGCAAACTT	CTCCTGCTCA	4440
GAGGGAACCA	AATTTCTGAA	ACGCTGCTCA	ATCTCTTG	TCCCACCAGC	CAAGCTGCAA	4500
GGACTGAGCC	CATGGCTGAC	ATGTCTTGAA	GATGGTCTCT	GGTCTCTCCC	TGAAGTCTAC	4560
TGCAAGTTGG	AGTGTGATGC	TCCCCCTATT	ATTCTGAATG	CCAACCTGCT	CCTGCCTCAC	4620
TGCCTCCAGG	ACAACCACGA	CGTGGGCACC	ATCTGCAAAT	ATGAATGCAA	ACCAGGGTAC	4680
TATGTGGCAG	AAAGTGCAGA	GGGTAAAGTC	AGGAACAAGC	TCCTGAAGAT	ACAATGCCTG	4740
GAAGGTGGAA	TCTGGGAGCA	AGGCAGCTGC	ATTCCTGTGG	TGTGTGAGCC	ACCCCTCCT	4800
GTGTTTGAAG	GCATGTATGA	ATGTACCAAT	GGCTTCAGCC	TGGACAGCCA	GTGTGTGCTC	4860
AACTGTAACC	AGGAACGTGA	AAAGCTTCCC	ATCCTCTGCA	CTAAAGAGGG	CCTGTGGACC	4920
CAGGAGTTTA	AGTTGTGTGA	GAATCTGCAA	GGAGAATGCC	CACCACCCCC	CTCAGAGCTG	4980
AATTCCTGTG	AGTACAAATG	TGAACAAGGA	TATGGGATTG	GTGCAGTGTG	TTCCCCATTG	5040
TGTGTAATCC	CCCCCAGTGA	CCCCGTGATG	CTACCTGAGA	ATATCACTGC	TGACACTCTG	5100
GAGCACTGGA	TGGAACCTGT	CAAAGTCCAG	AGCATTGTGT	GCACTGGCCG	GCGTCAATGG	5160
CACCCAGACC	CCGTCTTAGT	CCACTGCATC	CAGTCATGTG	AGCCCTTCCA	AGCAGATGGT	5220
TGGTGTGACA	CTATCAACAA	CCGAGCCTAC	TGCCACTATG	ACGGGGGAGA	CTGCTGCTCT	5280
TCCACACTCT	CCTCCAAGAA	GGTCATTCCA	TTTGCTGCTG	ACTGTGACCT	GGATGAGTGC	5340
ACCTGCCGGG	ACCCCAAGGC	AGAAGAAAAT	CAGTAACTGT	GGGAACAAGC	CCCTCCCTCC	5400
ACTGCCTCAG	AGGCAGTAAG	AAAGAGAGGC	CGACCCAGGA	GGAAACAAAG	GGTGAATGAA	5460
GAAGAACAAT	CATGAAATGG	AAGAAGGAGG	AAGAGCATGA	AGGATCTTAT	AAGAAATGCA	5520
AGAGGATATT	GATAGGTGTG	AACTAGTTCA	TCAAGTAGCC	CAAGTAGGAG	AGAATCATAG	5580
GCAAAAGTTT	CTTTAAAGTG	GCAGTTGATT	AACATGGAAG	GGGAAATATG	ATAGATATAT	5640
AAGGACCCTC	CTCCCTCACT	TATATTCTAT	TAAATCCTAT	CCTCAACTCT	TGCCCTGCTC	5700
TCCGCTCCAC	CCCCTGCCAA	CTACTCAGTC	CCACCCAAT	TGTAAACCAA	TACCAAATA	5760
CTAGAGGAGA	AGTTGGCAGG	GATACTGTTA	ATACCCATTT	TGAATGGATT	GCCATCTTTC	5820
AGAGCTTGTC	TGCTCTCAAC	TGGCTCTTTT	TCTTTTTGTG	TAGTTTCCCT	TAAATAATGA	5880
AGTTAGTTAT	TAATCTTTTA	TAAGTATTTA	AACATAATTA	TATAAATATA	TTATATATAT	5940
TATATTTTTT	GCTGTTTACT	AAGCTAAAAA	TTATTCATTG	TTCCACACAT	GCTGCTGTGA	6000
AGTTCACATT	CAAGATGAAT	GTTGAGACTT	TGAGGACAGA	AAGGCAACTT	ATTTTCCCAT	6060
CTTTCTATGG	ATGCGGATTG	GCAGGTTGAA	TGGGAAGTAC	AGAAGGAGAG	AGAGTAATTA	6120
GATGGAATTC	TGGATGCTAG	CATGTAAAGC	TAATCATCTT	TTTTTTTATG	ACCTGGGAGC	6180
TGGGCCCAT	TTATGACCAA	GGAGATGGGG	AGTTGGAATG	GTGGTACTAA	GAGGCATAGG	6240
AAGTTGAGTG	TGAATACCAT	TGGTGATGGG	TCCAGGAGAA	CTAGACTATG	GTTCTTGAAT	6300
ATCTGTCCAC	AAAGAATATA	CTAACTTTTG	TCAACTTCTC	AGAACTCCCA	ACTGGAGTCG	6360
GTGAGACCTA	GGATTTTCTG	CACTTCCACA	CATGCCTGTT	CCAAGTGTGG	CTGTCAGCCA	6420
GTCAACAAGT	TTGTACTATG	GCCCATTTCT	TGATCACCAG	GATTACAGGA	ACTCACACAC	6480
TCCTCATACT	TGGCCTGTAG	TCCTACTTCT	TGTTAGAAGT	CTCCAAGTCT	GGCCAGTCAC	6540
ATGACCAAGT	GTTGATTTTT	CTGGAGGAAA	AATTTTATGG	AAATGATATA	GGGGAAAGGT	6600
GGGAGGAGAT	GAAAGAACAG	GCAAGAGCTG	TCAGGGTTAA	ATCCAGGCC	GGGCATGAGA	6660
ATGGAAGTGA	TCAGGGAGAC	TCGGTCCCTG	TTCCAAGTCT	CCAAAGAAGA	CCAAAGTGGG	6720
TCCCTTGAGC	AATGAAGAAT	CTGAGATAAA	TTCTCTTCAA	GTATCATGTA	CAAAATCTGT	6780
GAGCCAGAGA	TTTTGACTTG	AGCAAGCCAT	GGAAATGCAT	GGAGCAAGGG	TGACACTCTG	6840
TGGGGAGACA	GAAGAATTTT	AACTATTTAA	TGTCCATTTT	GTTGTTTTTA	CCCTTTCTTA	6900
TCCAATAGAT	GGAATGCACA	TGAAATGACC	ATATTAAGCC	TCTCTCTATT	TACATCCCAG	6960
GCTCACTGGG	ATGTGATCTA	CTGCAGTTAC	GTTTCTTGT	AACGGTTTCT	GGATTAGACC	7020
CTAGGGAAAG	TGAGTAAGGA	GCCAGTTTCT	GTTTAACATT	CTAGTTTAC	TCATTTTAGG	7080
AAGGCTGTGA	TGAGGCTTG	TCTCCTTTAA	AGTTTCTTCT	CCAATGGAAA	CCAAGAACAG	7140
ACAAAATTTA	GAGCTCAGCT	GTGGTCTCTT	CTCATCTTCT	GCTCTTTTGC	TTTGACCACA	7200
GTTTTTCTAC	TCTTCCCATC	AACACTAGAG	CAATGGCTGT	GCAAAATAGGA	ATAGGAAATA	7260
CTACCACAAT	GATAGAAATA	TTATCCACAC	TATCACGTAG	GGAAGAACAA	TATCCTGAAA	7320
GAGAATAAAA	CACGAATAAG	GTGATGTACC	CACATTAATC	TGTGGGTTTG	TGGAATGAGG	7380
GTTGCAAAGT	TATTGGGAAA	AGGAAAGAGC	AGAGTTCACC	CATTCAAAAA	AAACCTTTTG	7440
TCTACTAATC	TCTAGTGTA	AGAAAATGTA	GTTTCAGATAC	CATTCAATTGT	CTTGGGTCAT	7500
GCTTAGTGCC	CCCAAGAAGA	CAAACATATT	TATTCTTGGG	ATTCTGATAG	GCTTCAATAT	7560
GCAAAGGACA	ATGGAAAAGT	TTAGACACTC	TATTTTCAAA	ATTTTATAAA	CTTGTTTTAT	7620
TGGGGAAAAT	GTCCAAATTG	CTAGACACAT	TCTAAGTTCT	GCCTTGAGAG	ATCCTACTTT	7680
GTCTGAGATT	GAGGCAGAGG	AATTGTTATC	CTGGGCATTA	CTCAGCTCAG	GAACATGGAG	7740
CCTGTGGTTC	ATGCCAGTGT	GTGTCTTCAT	GCAGTCTCTC	CACAAGAGCA	ACAGTAAGAA	7800
CATTTCTGTT	TTAAATTTCA	TTTTAAAATA	TTTTATTATC	TGCAATTCAC	CACTGCTCTG	7860
GGAAAGCAAA	AGGAAAGTTC	CTGTTGTGTG	TGAAGAGCCT	CTTAGGCTAT	AAGGCTTCCC	7920
AGCCATAGTC	AGCTATAGCT	ATTCAGAGAC	AGCAGGTTCT	TCCAGTCTTT	GTTCTCTGGG	7980
CCTGATGTTT	TGAGCAACTC	AGGTCACTGA	TAAAGTGGAA	GGACTAAGAC	ACTGTGGTCA	8040
CAGATCCCAG	CAACATCAAC	TCACACTCAA	TCCATGTGGT	GGTCCACATT	CTGCTACTCT	8100
TATCCACCCA	TGTGGTCATT	GAGAGCCTTT	CTCAGAGACT	CTTCTGTGTG	TTTGATTGTG	8160
CCCAGGTGGC	CCAGGGCTAG	CTGGCTCTAA	CAACTAGCAT	GACAGCCTCC	AATCAGAAAG	8220
GCAGGTAAGG	GGACAGGGTG	AGGAGAATGG	GCAGATACTG	ACAGAAATTA	AAGTAAAGGG	8280
ATTGTGAAAG	TAAAGAGCTC	TTCTTGATTG	TCATCTTCTC	TTTTTTCTAT	TACAAGGCAT	8340
TGAACTTGGC	ACTTCCTGTA	TTCTTTGTGA	TCATATTGTA	GTGCATTAGT	TAACACCCAA	8400
GGGGATGGCT	TGATTGGGAA	TGTAGTGAAA	GGAGCTGATC	TACTGTATTG	TAATGTAAAA	8460
CAGCTACAGC	CAGTTATTTT	GTAAGATTAT	AAGTTGTTCA	TTAAAAAATC	AGCACACAAA	8520
ATATGAA						8527

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